

Homework Due March 24, 2015

Algebra 2

Exponents Day 30: Introduction to Exponential Functions

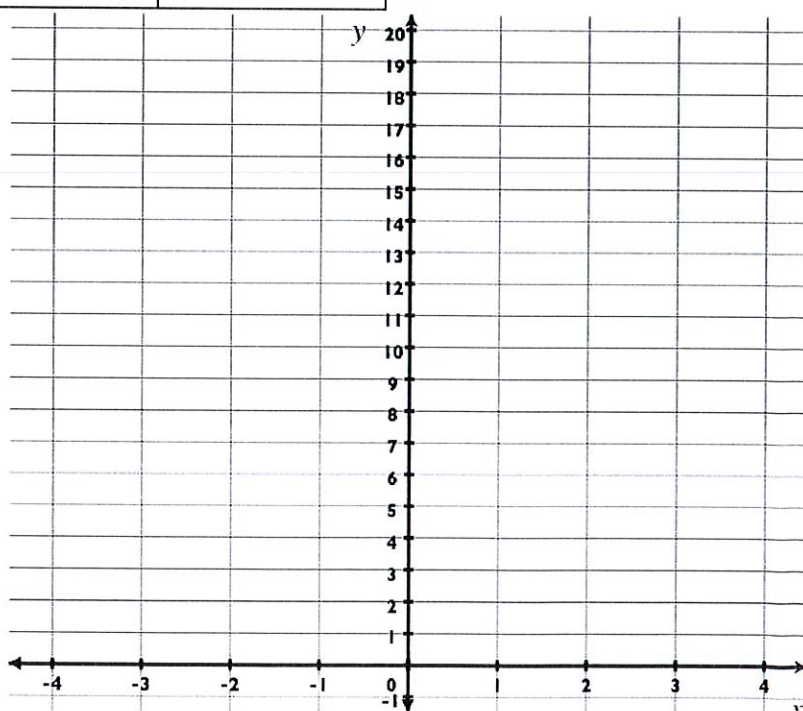
Name: _____

Graphing Exponential Functions

Directions:

Make a data table, and then draw the graph of the function $f(x) = 2^x$. Use integer x-values from -4 to 4.

x	y



After completing the graph,
answer these questions.

Complete the end-behavior
statements about the graph of

As $x \rightarrow -\infty$,

As $x \rightarrow +\infty$,

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2. What are the coordinates of the y-intercept? Why is it there?

3. Explain why there aren't any x-intercepts.

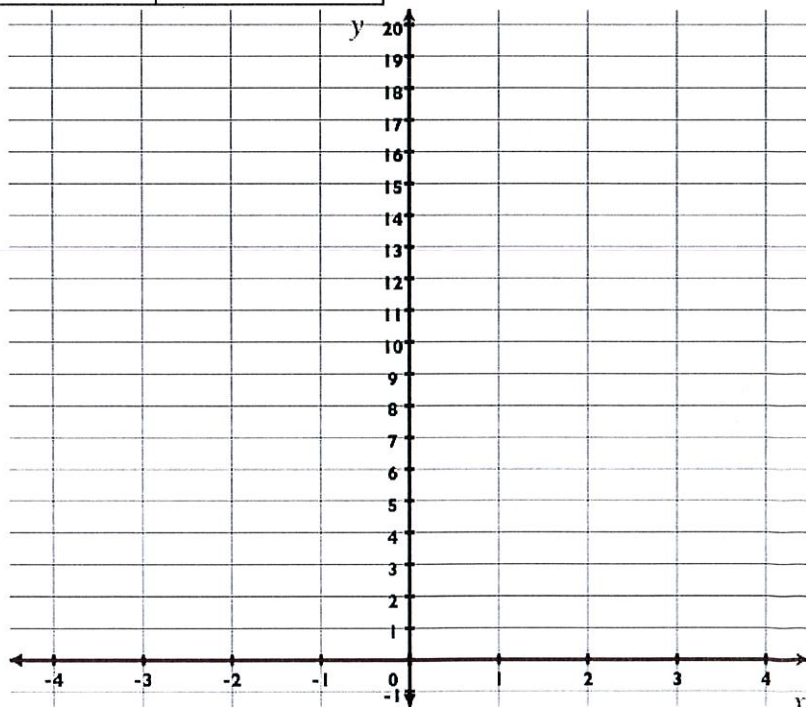
Algebra 2
Exponents Day 30: Introduction to Exponential Functions

Directions:

Make a data table, and then draw the graph of the function $f(x) = 3(2)^x$. Use integer x-values from -4 to 4.

x	y

1.
f(x):



After completing the graph,
answer these questions.

Complete the end-behavior
statements about the graph of

As $x \rightarrow -\infty$,

As $x \rightarrow +\infty$,

2. What are the coordinates of the y-intercept? Why is it there?

3. On the same set of axes, graph the function $f(x) = \frac{1}{2}(2)^x$. Use the space below to make a data table if necessary.